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WISNIEWSKI et al.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	876,015	01/07/1908	Ray	/	/	
	983,466	02/07/1911	Vorhees	/	/	
	1,874,578	08/30/1932	Morrison	/	/	
	2,085,924	07/06/1937	Riegler	/	/	
	2,129,572	09/06/1938	Finnegan	/	/	
	2,391,876	01/01/1946	Brown	/	/	
	2,405,091	07/30/1946	Culbreth	/	/	
	2,441,376	05/11/1948	Stiening	/	/	
	2,449,343	09/14/1948	Torbensen	/	/	
	2,605,620	08/05/1952	Taylor	/	/	
	2,610,034	09/09/1952	Lundvall et al.	/	/	

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	A 12751/83	10/06/1983	Australia	/	/		
	18668/83	04/05/1984	Australia	/	/		
	0 316 966 B1	05/24/1989	Europe	/	/		
	0 618 413 A1	10/05/1994	Europe	/	/		
	0 647 707 A	04/12/1995	Europe	/	/		✓

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	Burton et al., "An Experimental Investigation of the Solidification Process in a V-shaped Sump", Int. J. Heat Mass Transfer, Vol. 38, No. 13 (1995), pp.2383-2393
	Schwartz, H. W., "Production of Orange Juice Concentration and Powder", Industrial and Engineering Chemistry, Vol. 40 No. 5 May 1948, pp. 938-944

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	2,704,656	03/22/1955	Freer	/	/	
	2,915,292	12/01/1959	Gross	/	/	
	3,074,246	01/22/1963	Wilbushewich	/	/	
	3,108,840	10/29/1963	Conrad et al.	/	/	
	3,308,552	03/14/1967	Kaufman et al.	/	/	
	3,318,105	05/09/1967	Burroughs et al.	/	/	
	3,453,416	07/01/1969	Mekjean	/	/	
	3,550,393	12/29/1970	Euwema	/	/	
	3,595,308	08/27/1971	Durdin	/	/	
	3,595,908	07/27/1971	Lumbroso et al.	/	/	
	3,764,780	10/09/1973	Ellis	/	/	

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						YES	NO
	518,301	02/22/1940	Great Britain	/	/		
	845,576	08/24/1960	Great Britain	/	/		
	2 029 880A	08/25/1982	Great Britain	/	/		
	758,510	01/18/1934	France	/	/		✓
	2,237,156	02/07/1975	France	/	/		✓

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	Wisniewski, R. et al., "Large-Scale Freezing and Thawing of Biopharmaceutical Drug Products", Biotech and Biopharm. Manufacturing, Processing and Preservation, Tinterpharm Press, Illinois, 1996, pp. 7-59
	Wisniewski, R. et al., "Large-Scale Freezing and Thawing of Biopharmaceutical Drug Product", Proceedings of the International Congress, 1992, pp. 132-140

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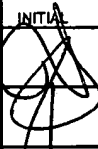

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	3,934,618	01/27/1976	Henderson	/	/	
	3,976,129	08/24/1976	Silver	/	/	
	4,200,148	04/29/1980	Friefeld et al.	/	/	
	4,241,043	12/23/1980	Hetzel	/	/	
	4,296,612	10/27/1981	Allo	/	/	
	4,337,079	06/29/1982	Mann, Jr. et al.	/	/	
	4,344,479	08/17/1982	Bailey	/	/	
	4,426,959	01/24/1984	McCurley	/	/	
	4,509,344	04/09/1985	Ludwigsen et al.	/	/	
	4,512,388	04/23/1985	Claar et al.	/	/	
	4,531,373	07/30/1985	Rubinsky	/	/	

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO
57-580587	04/07/1982	Japan (english abstract)	/	/		

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	Lawler, Frank K., "Engineering Advances FREEZE-Concentration", Food Engineering, Vol. 23, No. 10, October 1951, pp. 68-71, 210-213
	Gore, H.C., "Apple Sirup and Concentrated Cider: New Products for Utilizing Surplus and Cull Apples.", Yearbook of the Department of Agriculture, 1914, pp.227-244

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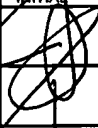

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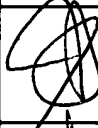

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	4,596,120	06/24/1986	Knodel et al.	/	/	
	4,609,036	09/02/1986	Schrader	/	/	
	4,712,607	12/15/1987	Lindeman et al.	/	/	
	4,793,151	12/27/1988	Masel et al.	/	/	
	4,893,670	01/16/1990	Joshi et al.	/	/	
	4,976,308	12/11/1990	Faghri	/	/	
	5,005,371	04/09/1991	Yonezawa et al.	/	/	
	5,022,149	06/11/1991	Abbott	/	/	
	5,029,634	07/09/1991	Hurner	/	/	
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	Stahl, A.L., "Concentration of Citrus Juices by Freezing ", Florida State Horticultural Society, 1944, pp.43-45
	Kalhari, B. et al, "Studies on Heat Transfer From a Vertical Cylinder, With or Without Fins, Embedded in a Solid Phase Change Mediam", Transactions of the ASME, Journal of Heat Transfer, Vol. 107, February 1985, pp. 44-51

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	5,072,569	12/17/1991	VanTassel	/	/	
	5,090,207	02/25/1992	Gilbertson et al.	/	/	
	5,168,725	12/08/1992	Margolin	/	/	
	5,176,197	01/05/1993	Hamaguchi et al.	/	/	
	5,181,387	01/26/1993	Meckler	/	/	
	5,212,957	05/25/1993	Ruff	/	/	
	5,220,954	06/22/1993	Longardner et al.	/	/	
	5,332,034	07/26/1994	Chiang et al.	/	/	
	5,411,078	05/02/1995	Ares	/	/	
	5,458,191	10/17/1995	Chiang et al.	/	/	

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